

VEHICLE STEERING SYSTEM FOR KICKBACK REDUCTION

ABSTRACT OF THE DISCLOSURE

A steering system (10) and a method of dampening the forces transmitted to a steering wheel (20) of a vehicle when a steerable wheel (22) of the vehicle collides with an obstacle using the steering system (10). The method includes steering a vehicle via a steering wheel (20) operably connected to a steerable wheel (22), with the steering wheel (20) defining an input angle. The method also includes monitoring the rate of change of a steering angle (40) as defined by the steerable wheel (22), with the ratio of the input angle to the steering angle (40) defining a steering ratio. The method further includes reducing an amount of torque transmitted to the steering wheel (20) from the steerable wheel (22) when the rate of change of the steering angle (40) exceeds a maximum rate by adjusting the steering ratio (40).